Kentucky's digital and future ready students and teachers

We are headed towards greater and more meaningful digital interactions between family, school, and community. We believe digital and future ready foundations can: help empower student personalized learning experiences and preparedness for college and workforce | increase teacher productivity and digital workflows | enhance communications and invaluable collaboration models | expand data enhanced decision making | and, provide a robust infrastructure for endless possibilities...

624,854
Avg Daily Attendance

1.9 to 1

328,803
Student Instructional Devices

Access

Student access at school and at home helps us understand how "plugged in" learners are during the school day. Students without access to technology in school are less likely to engage in 21st century learning. Ease of access is a precursor to shifts in student outcomes.
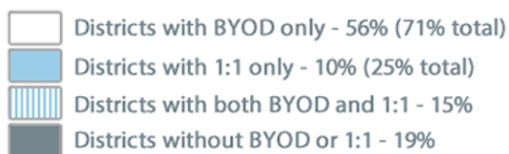
71% of districts allow student BYOD
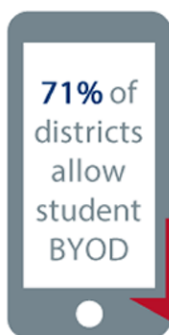
14% YOY

100kbps
Bandwidth per student available statewide

9 out of 10 students have Internet access at home. Of whom, 94% have wireless Internet access.

- Districts with BYOD only - 56% (71% total)
- Districts with 1:1 only - 10% (25% total)
- Districts with both BYOD and 1:1 - 15%
- Districts without BYOD or 1:1 - 19%

67%
of students have a smartphone

66% of schools have dense wireless networks capable of supporting BYOD or 1:1 initiatives
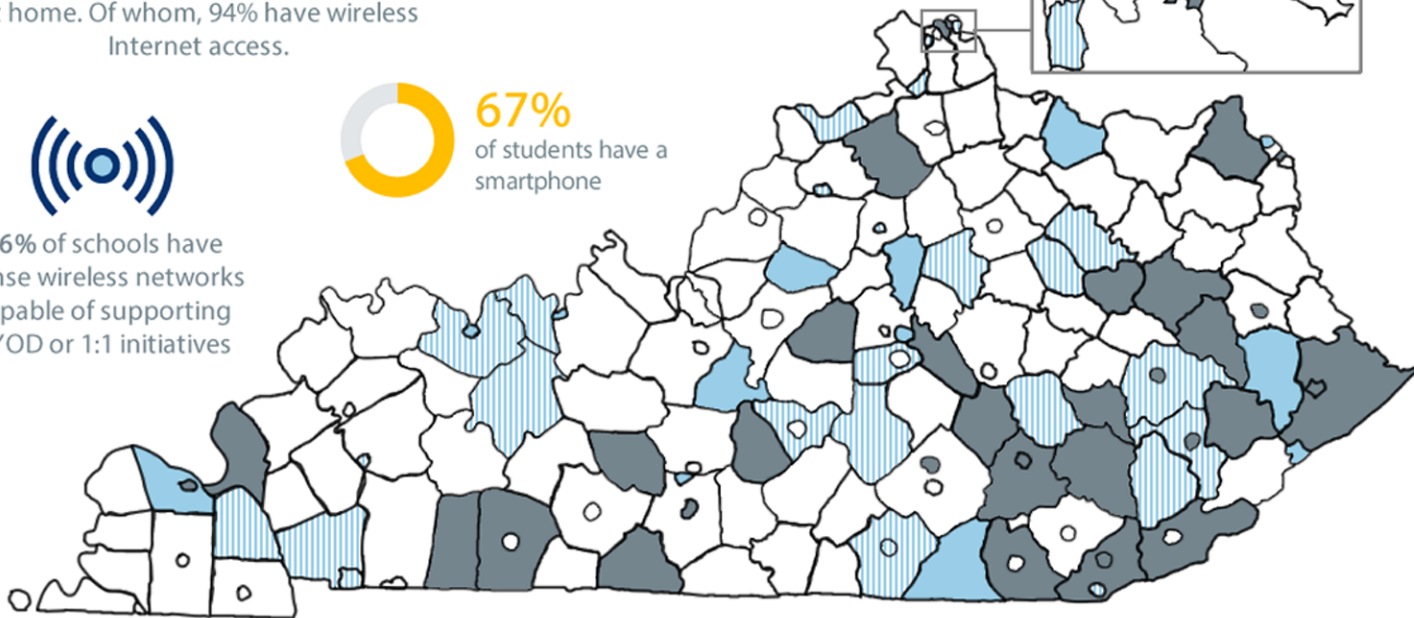
Anytime, Anywhere, Always On, Differentiated Teaching and Learning

Future Ready Student

Strong online skills, such as confidence using shared digital workspaces, have been correlated with increased collaboration in the classroom.

Students can think about concepts and interactions in more varied ways with the affordances of multimedia and multimodal representations.

MULTIMEDIA SKILLS

Student reported frequency of viewing friends' photos or video online

75% at least once a week

12% reported never doing so

Student reported frequency of uploading photos from a camera or phone

44% at least once a week

23% reported never doing so

Student reported ease of recording and editing video

55% find these tasks easy to perform

12% said the task was impossible

Student reported frequency of playing a game on a computer or phone

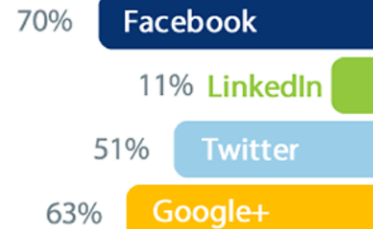**85%** at least once a week

5% reported never doing so

FOUNDATIONAL SKILLS

Student reported ease of sending an email

81% find these tasks easy to perform

5% said the task was impossible

85% of KY parents believe their child's school encourages technology use for teaching and learning

92% of KY parents believe technology use in class can enhance student learning

Student social network use by network

70%	Facebook
11%	LinkedIn
51%	Twitter
63%	Google+

Student reported research methods

Legend:
- All the time
- More than half the time
- Less than half the time
- Rarely
- Never

Categories: search the Internet, friend or teacher, ask in social networks, go to the library, buy a book

Students who have access to computers and the Internet are more likely to use technology more frequently and have better technology skills. These skills are a precursor to the use of digital creativity, digital collaboration, digital communication, and critical thinking in the classroom and while learning.

Students can also personalize the use of their technology and leverage great access to engage in anytime, anywhere learning on topics of their choice.

61% of students are allowed to use personal mobile devices in class for academic reasons

21st Century Teacher

32% of KY teachers believe they are highly knowledgeable regarding Digital Citizenship skills

89% of KY teachers believe technology enhances learning and their daily lives

Teachers with strong foundational skills are able to handle administrative classroom tasks easily, including attendance and grading. Further, teachers who are confident about their ability to use foundational skills are often able to use these skills when learning new online and multimedia skills.

4 of 5 teachers report having sufficient access to instructional technology...

yet less than 2 in 5 have access to a Technology Integration Specialist (TIS)

MULTIMEDIA SKILLS
Ability to manipulate photos and record and edit audio or video

37% find these tasks easy to perform

62% expressed interest in PD in this area

ONLINE SKILLS
Essential skills for contributing to and collaborating on the Internet

49% ready to utilize these skills

17% expressed interest in PD in this area

FOUNDATIONAL SKILLS
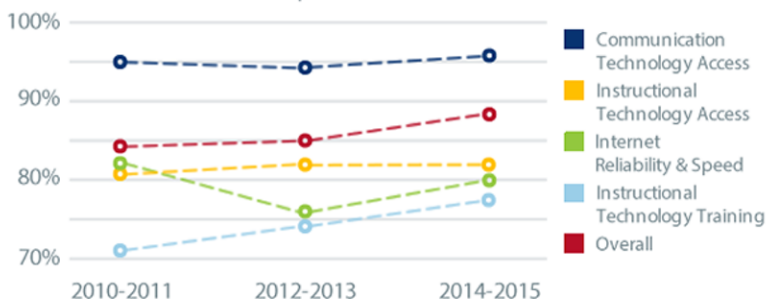Basic computing skills - sending email and creating spreadsheets

69% find these tasks easy to perform

19% expressed interest in PD in this area

Teacher-reported hours spent per year participating in school-sponsored technology related PD

- 14% 17+
- 12% 9-16
- 23% None
- 51% 1-8 hours
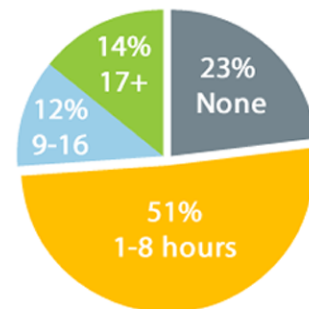
Most requested education technology PD topics

62% Multimedia Skills

55% Classroom Management with Technology

44% Online Collaboration

TELL Survey Results
Positive Responses

	2010-2011	2012-2013	2014-2015

Legend:
- Communication Technology Access
- Instructional Technology Access
- Internet Reliability & Speed
- Instructional Technology Training
- Overall

STLP
Student Technology Leadership Program

Device Trends

- **67%** WINDOWS
- **11%** MACINTOSH
- **18%** iOS
- **2%** ANDROID
- **2%** CHROME

v11 13%
v9 11%
v10 6%
v7 4%
v8 2%
e 36%
19%
22%
23%
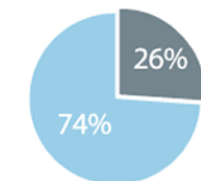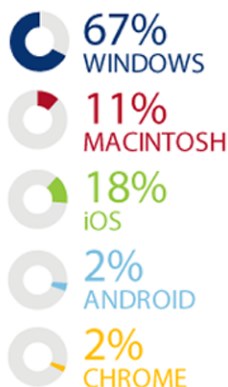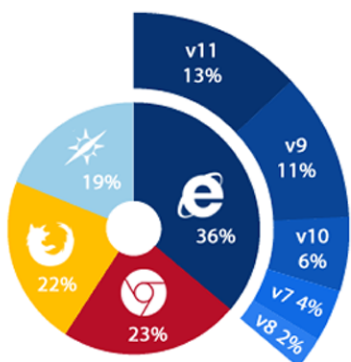
After school program or club 26%
Program integrated into content 74%
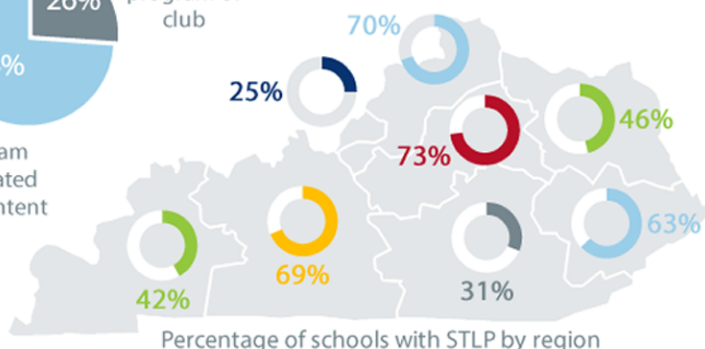
Percentage of schools with STLP by region
70%
25%
73%
46%
63%
42%
69%
31%

KETS Offers of Assistance
Per Student

$35
$0
07-08 09-10 11-12 13-14 15-16

✉ **622,334**
avg. number of spam emails filtered per day

83%
of districts registered and using Digital Drivers License (DDL)

INTERNET
DDL

91%
of districts have Digital Citizenship programs

Safety & Security

534 Certifications
2,422 Courses Completed
6,821 Courses Downloaded
88% High School & ATC Participation
</KY IT ACADEMY>
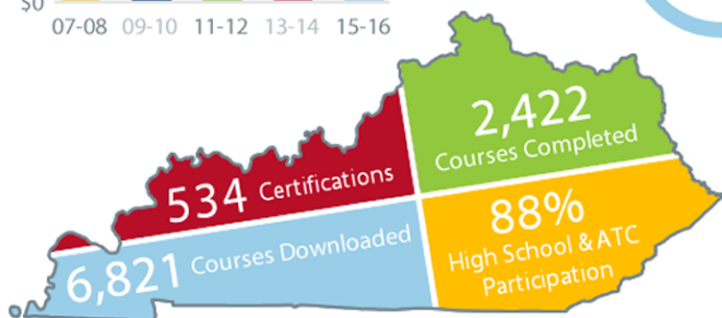
🕵 **1,100,000**
Malware, or malicious software removed per month

2015
October

Sources
Kentucky Technology Readiness Report: http://applications.education.ky.gov/trs_reports/
TELL Kentucky: http://www.tellkentucky.org/results/25
BrightBytes: http://brightbytes.net
Digital Driver's License (DDL): http://iDriveDigital.com
Google Analytics
Open House: http://openhouse.education.ky.gov

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